FUTURE-READY SCADA & CONTROL SYSTEM MODERNIZATION

Modernize with Confidence. Operate with Intelligence.

WHY MODERNIZE ?

Today's manufacturers face mounting pressure to increase productivity, ensure compliance, and adapt to digital transformation. Yet many still operate on legacy control systems that are hard to maintain, lack cybersecurity resilience, and cannot integrate with modern technologies.

Pro Cahaya Industries (PCI) helps industrial operators upgrade aging SCADA and control systems into intelligent, secure, and connected platforms — enabling better visibility, data-driven decisions, and sustainable growth.
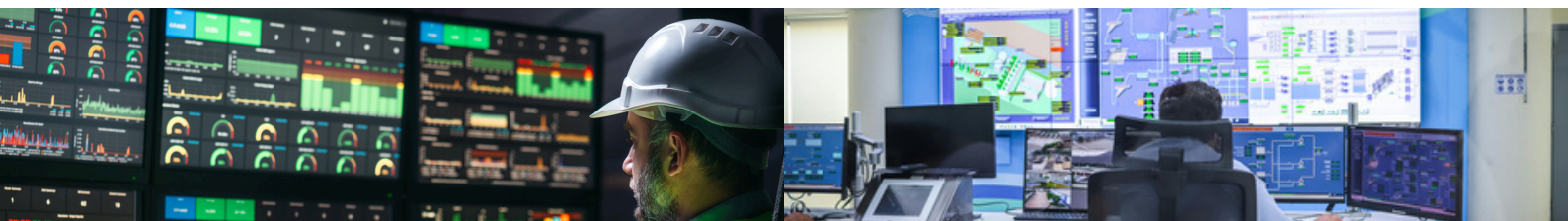
COMMON CHALLENGES WITH LEGACY SYSTEMS

- Obsolete PLCs, SCADA, and HMIs with discontinued support
- Security vulnerabilities and outdated operating systems
- Limited scalability and lack of integration with new systems
- Frequent downtime, high maintenance costs, and data loss risks
- No centralized visibility or analytics for management

WHY NOW?

- Transition to Windows 11 and modern server-based architecture
- Strengthen industrial cybersecurity against ransomware and intrusions
- Enable remote access, mobile monitoring, and cloud connectivity
- Unlock real-time insights and digital dashboards for better operations
- Ensure regulatory compliance and audit readiness with electronic records

OUR MODERNIZATION CAPABILITIES

✅ SCADA System Modernization
- Migration from legacy platforms to modern SCADA
- Multi-screen HMI redesign with plantwide overview
- Redundant server-client architecture
- Alarm rationalization and historical data archiving
- Integration with historians, ERP, and cloud

✅ PLC & Control Panel Upgrades
- Replacement of outdated PLCs (Siemens S5/S7, Allen-Bradley SLC, Mitsubishi, etc.)
- New control panel design, wiring, and installation
- Field IO replacement and tagging with minimal downtime
- Rewriting and optimization of PLC logic and sequences

✅ Cybersecurity & Compliance
- Secure OT network architecture (firewall, VLAN, VPN)
- Role-based access control and audit logging
- Patch management and backup solutions
- Compliance with ISA/IEC 62443, ISO standards, and local regulations

✅ Future Integration Readiness
- SCADA to MES, APS, ERP, CMMS, and energy systems
- Edge computing, cloud gateway, and IIoT platform readiness
- OPC UA, MQTT, REST API, SQL/NoSQL support
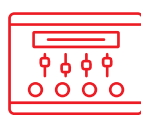

MODERNIZATION PROCESS WITH PCI

Site Survey & System Audit › Compatibility & Gap Assessment › Migration Plan with Minimal Downtime › Control Panel Design & FAT/SAT › Installation, Commissioning & Training › After-Sales Support & Remote Monitoring

WHY CHOOSE PRO CAHAYA INDUSTRIES?

20+ years of experience
in industrial automation and SCADA systems

Cut maintenance costs
with remote diagnostics and predictive alerts

In-house engineering
and field support teams

Strong track record in mission-critical sectors
like water, oil & gas, manufacturing, chemicals, and utilities

REAL RESULTS FOR REAL OPERATIONS

- Cut maintenance costs with remote diagnostics and predictive alerts
- Improved operator response time with intuitive HMI
- Strengthened cybersecurity posture
- Gained visibility across multi-site operations

Ready to Future-Proof Your SCADA & Control Systems?

Let PCI help you migrate confidently and securely — from obsolete automation platforms to future-ready architectures that scale with your business.

PRO CAHAYA INDUSTRIES SDN BHD

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